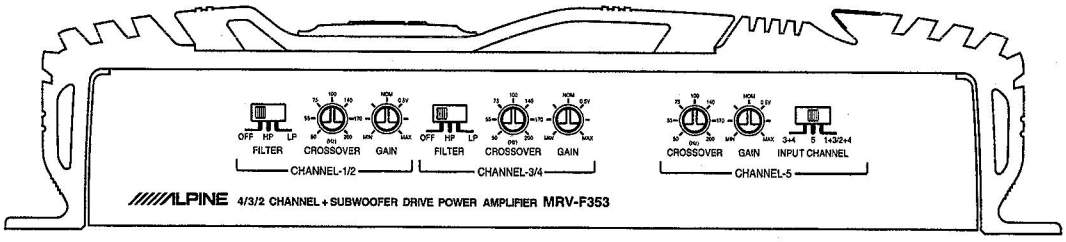
ALPINE

SERVICE MANUAL

4 Channel + Subwoofer Drive
Power Amplifier



MRV-F353

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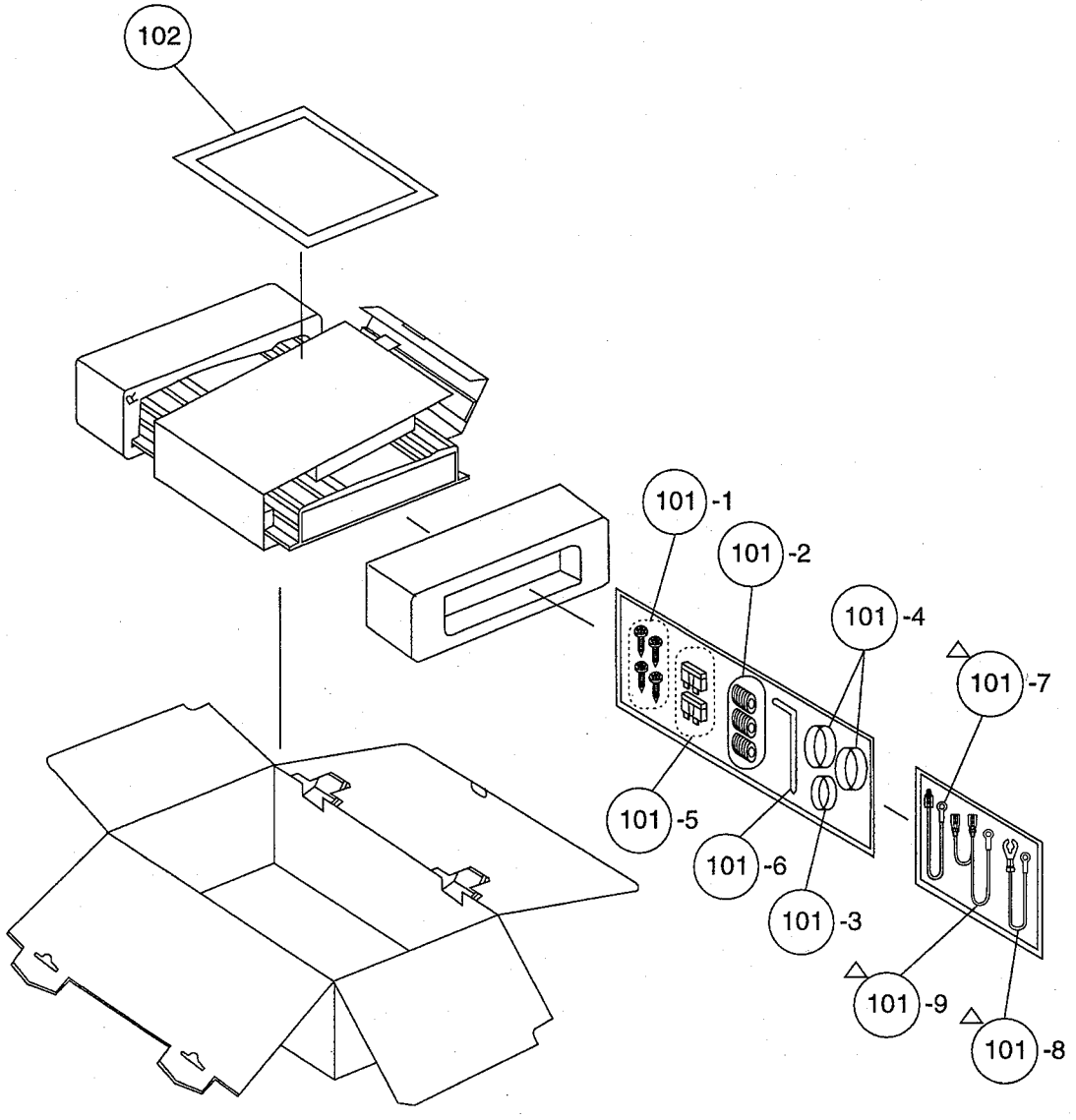
Packing Assembly Parts List

Symbol No.		Part No.	Description
	101-1	03E11447S01	Screw, TPG (M4X14)
	101-2	03E29353S01	Screw (M4X10)
	101-3	75E29296S01	Housing Rubber-A
	101-4	75E27899S01	Housing Rubber-F
	101-5	65E27881S01	Fuse, Auto 25A (For Battery Line)
	101-6	01E28659S01	Wrench
△	101-7	01E29399S01	Assy., Battery Wire

Symbol No.		Part No.	Description
△	101-8	01E29400S01	Assy., GND Wire
△	101-9	01E29401S01	Assy., Remote Wire
○	102	68P20877Y03	Owner's Manual
△	102-1	68P11199Y88	Owner's Manual (ENGLISH/FRANCAIS/ESPANOL)
△	102-2	68P11199Y89	Owner's Manual (DEUTSCH/ITALIANO/SVENSKA)

NOTE : ○ : For North American Model Only, △ : For General Foreign Model Only, Others : Common.

Packing Method View



Specifications

T.H.D. (Stereo, 20Hz/1kHz/20kHz)	40W/ch, 4ohm-4channel, 14.4V, L.P.F.-80kHz : 0.2%
	25W/ch, 4ohm-4channel, 12V, L.P.F.-80kHz : 0.2%
	50W/ch, 2ohm-4channel, 14.4V, L.P.F.-80kHz : 0.8%
	35W/ch, 2ohm-4channel, 12V, L.P.F.-80kHz : 0.8%
(BTL, 20Hz/1kHz/20kHz)	110W/ch, 4ohm-2channel, 14.4V, L.P.F.-80kHz : 0.8%
	80W/ch, 4ohm-2channel, 12V, L.P.F.-80kHz : 0.8%
(SUB-WOOFER, 20Hz)	150W Output, 4ohm, 14.4V, L.P.F.-80kHz : 0.8%
	100W Output, 4ohm, 12V, L.P.F.-80kHz : 0.8%
Power Output (Stereo, 20Hz/1kHz/20kHz)	4ohm-4channel, 0.2% T.H.D., 14.4V, L.P.F.-80kHz : 40W
	4ohm-4channel, 0.2% T.H.D., 12V, L.P.F.-80kHz : 25W
	2ohm-4channel, 0.3% T.H.D., 14.4V, L.P.F.-80kHz : 50W
	2ohm-4channel, 0.3% T.H.D., 12V, L.P.F.-80kHz : 35W
(BTL, 20Hz/1kHz/20kHz)	4ohm-2channel, 0.3% T.H.D., 14.4V, L.P.F.-80kHz : 110W
	4ohm-2channel, 0.3% T.H.D., 12V, L.P.F.-80kHz : 80W
(SUB-WOOFER, 20Hz)	4ohm, 0.3% T.H.D., 14.4V, L.P.F.-80kHz : 135W
	4ohm, 0.3% T.H.D., 12V, L.P.F.-80kHz : 90W
S/N Ratio (Ref. Output 50W/4ohm, Input shorted)	CH1~4 : 95dB
	CH5 : 100dB
Input Sensitivity (50W Output, CH1~4)	GAIN-VR (NORM) : 1V±3dB
	GAIN-VR (MAX) : 0.2V±3dB
	GAIN-VR (MIN) : 4V±3dB
(150W Output, CH5)	GAIN-VR (NORM) : 700mV±3dB
	GAIN-VR (MAX) : 150mV±3dB
	GAIN-VR (MIN) : 3V±3dB
Input Impedance	21kohm±10%
Frequency Response (0±1dB)	Ref. 1kHz : 20Hz~50kHz
	Ref. 20Hz (Filter 200Hz) : 20Hz~100kHz
Current Drain	No Signal : 2.5A
	4ohm-5channel, 0.2% T.H.D., 50W×4ch+150W×1ch : 57A
	2ohm-5channel, 0.8% T.H.D., 65W×4ch+150W×1ch : 71A
	4ohm-3channel, BTL 150W, 0.8% T.H.D., 130W×2ch+150W×1ch : 71A
Residual Noise (Input Shorted, 4ohm-5channel)	VR Center, MIN : 3mV
	VR MAX. : 6mV
Channel Separation (Input Shorted, 20Hz, 50W×4ch+150W×1ch)	55dB
Remote on Voltage (1W Output)	6.5 +1, -1.5V
Remote Current Drain	1.3±0.5mA
Back Up Current Drain	1.2mA
Fuse Requirement	25A×2 (For Battery Line)
Power Source	DC14.4V (11~16V)
Dimensions (W×H×D)	280×60×400mm
Weight	6.2kg

NOTE : Due to Continuing product improvement, specifications and designs are subject to change without notice.

Adjustment Procedures

1. Power Supply Voltage Adjustment

(1) Connection

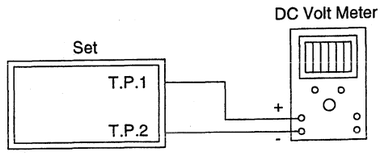


Figure 1

BATTERY : DC14.4V
REMOTE : DC6.5+1, -1.5V
No Signal Input

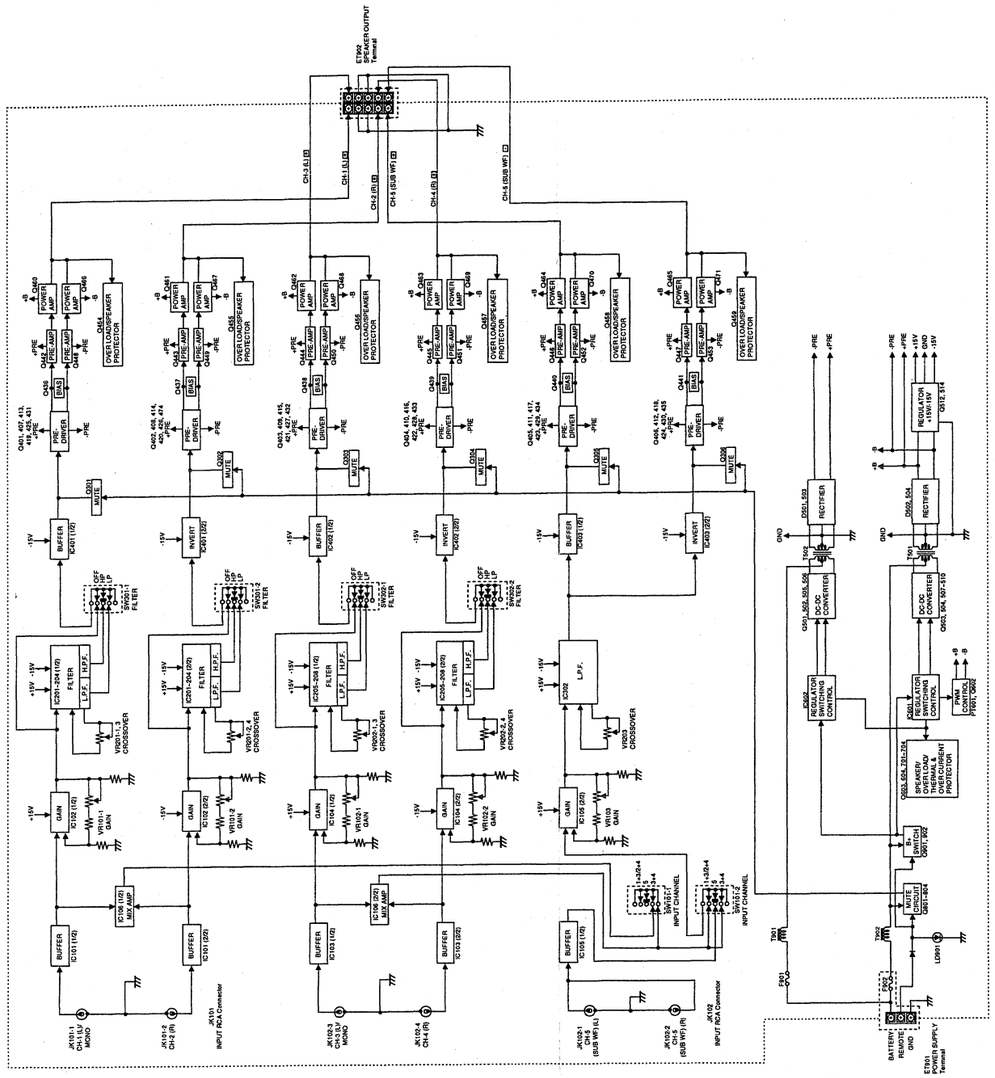
(2) Adjustment Procedures

① First, rotate VR601 fully counter clockwise.

② Adjust VR601 so that Voltage between T.P.1 and T.P.2 reaches 53±1V.

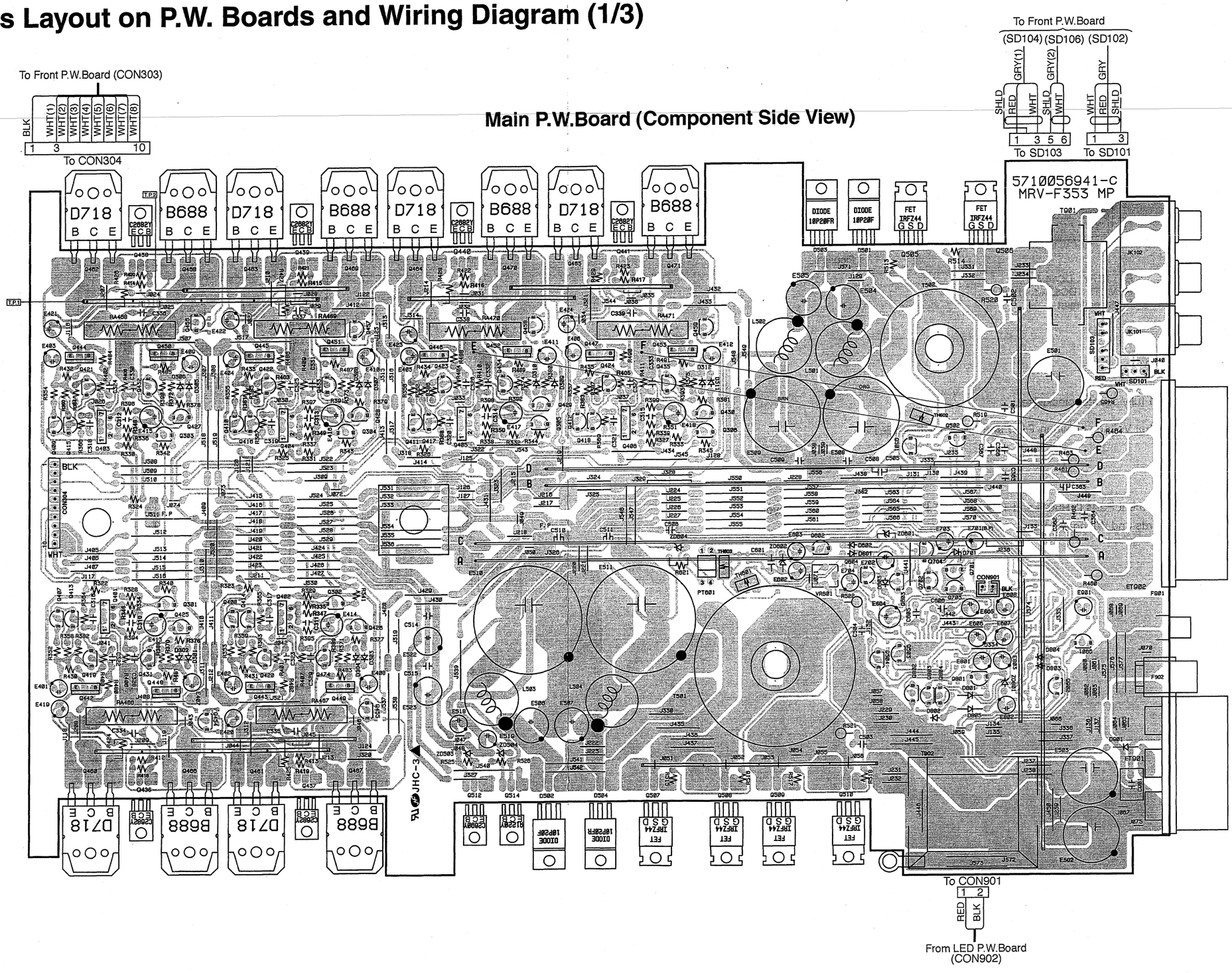
NOTE : For the Adjustment Parts (VR601) and Test Points (T.P.1, 2), refer to the Parts Layout on P.W. Boards and Wiring Diagram.

Block Diagram



Parts Layout on P.W. Boards and Wiring Diagram (1/3)

Main P.W.Board (Component Side View)



Blue Color Pattern : Foil Side Pattern

Parts Layout on P.W. Boards and Wiring Diagram (2/3)

1

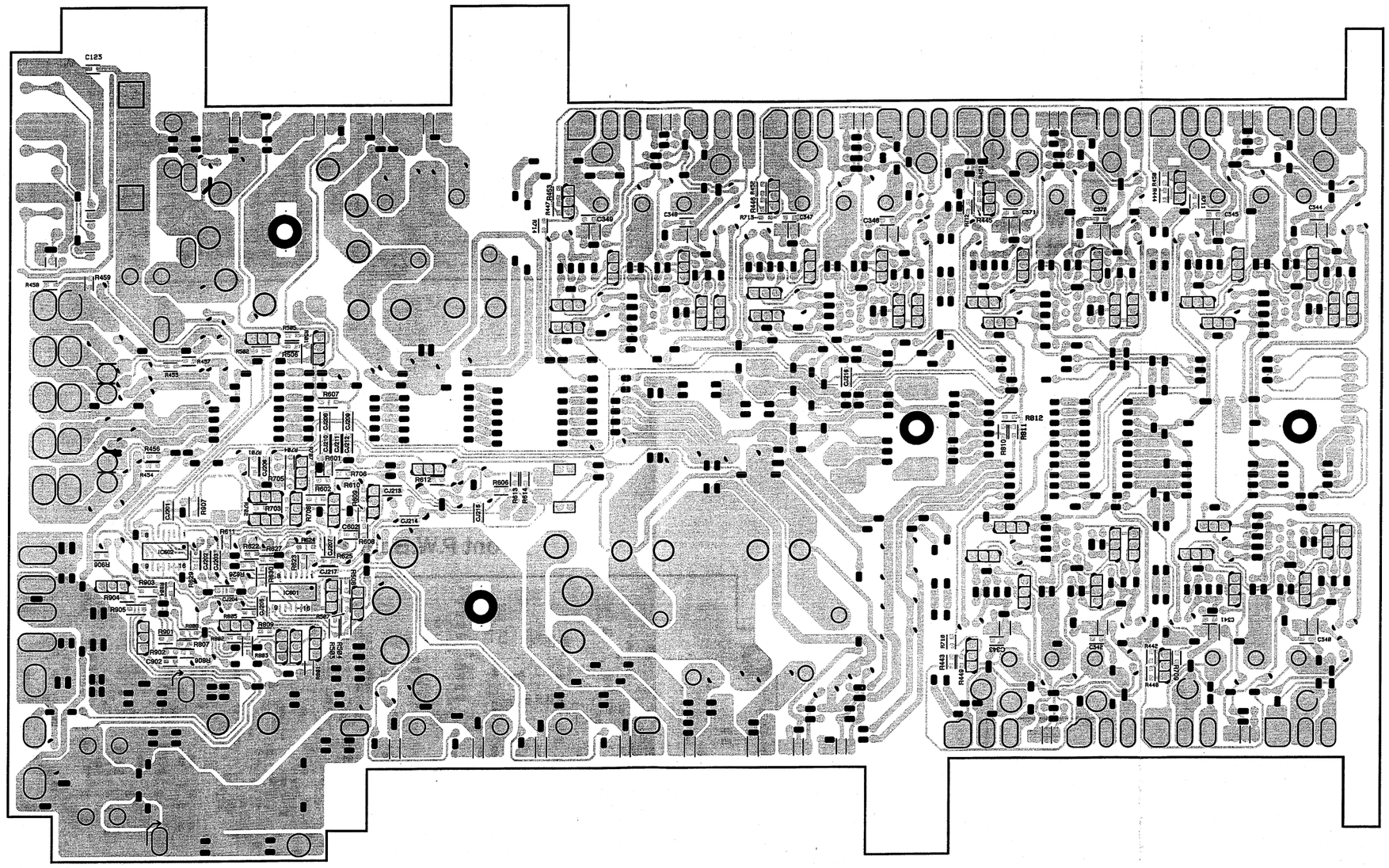
2

3

4

5

Main P.W.Board (Foil Side View)



Blue Color Pattern : Foil Side Pattern

A | B | C | D | E | F | G

Parts Layout on P.W. Boards and Wiring Diagram (3/3)

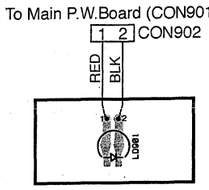
1

2

3

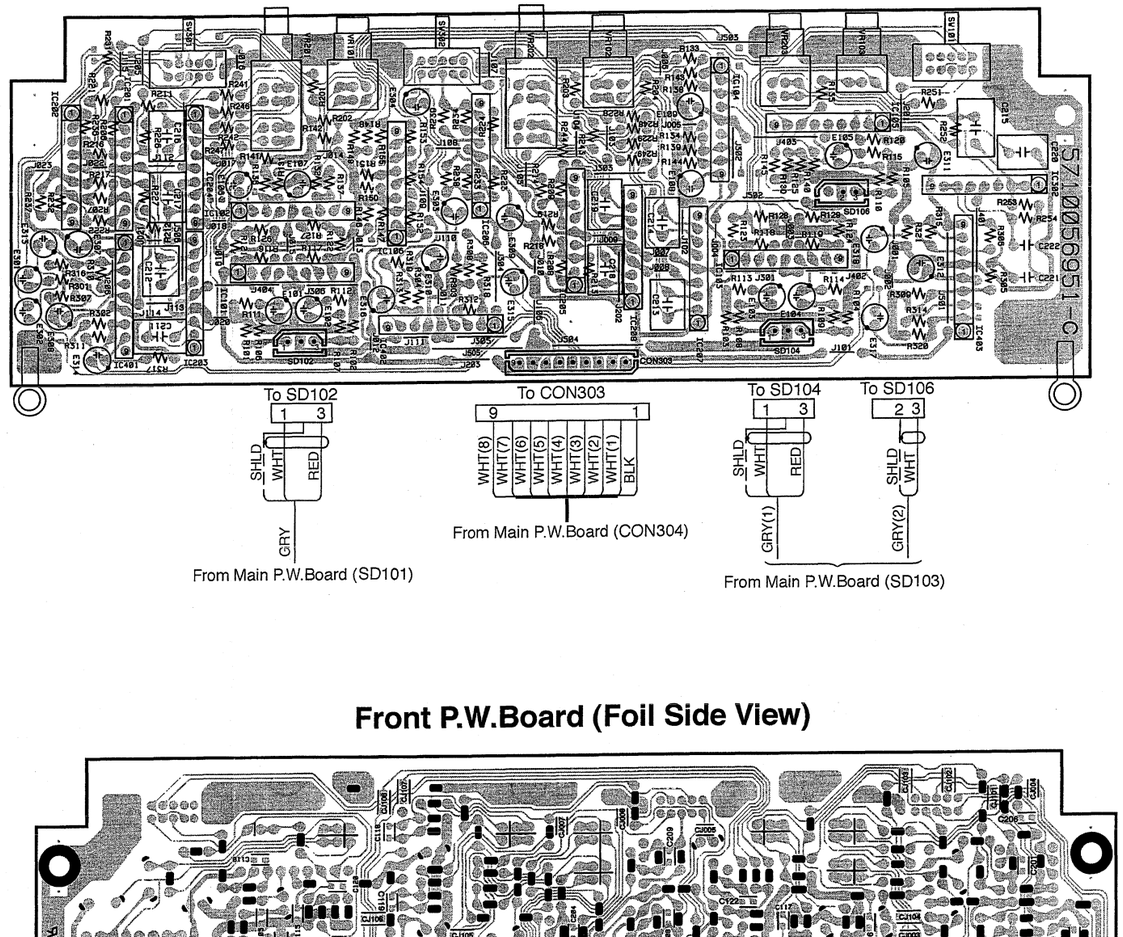
4

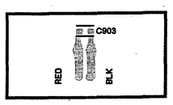
5



LED P.W.Board (Component Side View)

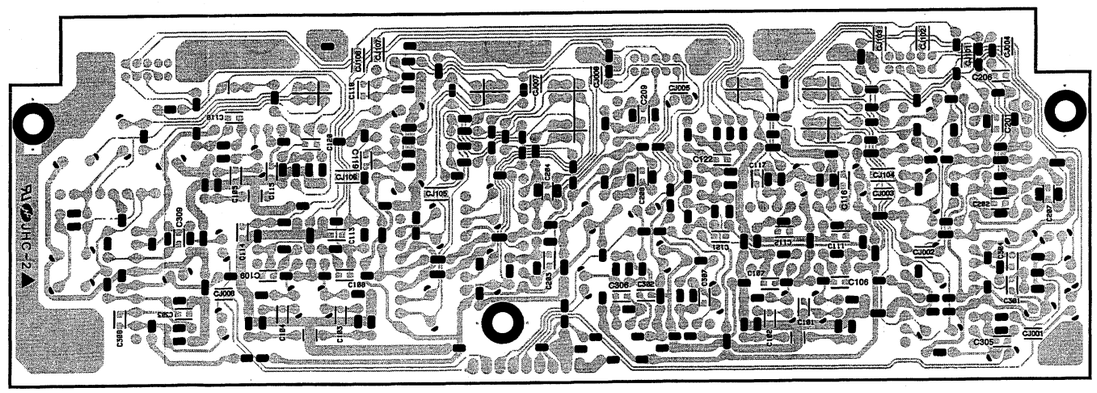
Front P.W.Board (Component Side View)





LED P.W.Board (Foil Side View)

Front P.W.Board (Foil Side View)



Blue Color Pattern : Foil Side Pattern

A B C D E F G

Schematic Diagram (1/3)

IC	IC101 IC103 IC105(1/2)	IC106(1/2) IC106(2/2)	IC102 IC104 IC105(2/2)	IC201 IC205	IC202 IC206 IC302(1/2)	IC203 IC207 IC302(2/2)	IC204 IC208 IC403(1/2)	IC401 IC402 IC403(2/2)

Front P.W.Board

Main P.W.Board (1/3)

JK101 INPUT RCA Connector

JK102 INPUT RCA Connector

SD101 SD102 SD103 SD104 SD105 SD106

SW101-1 INPUT CHANNEL (CHANNEL-5)

SW101-2 INPUT CHANNEL (CHANNEL-5)

SW301-1 FILTER (CHANNEL-1/2)

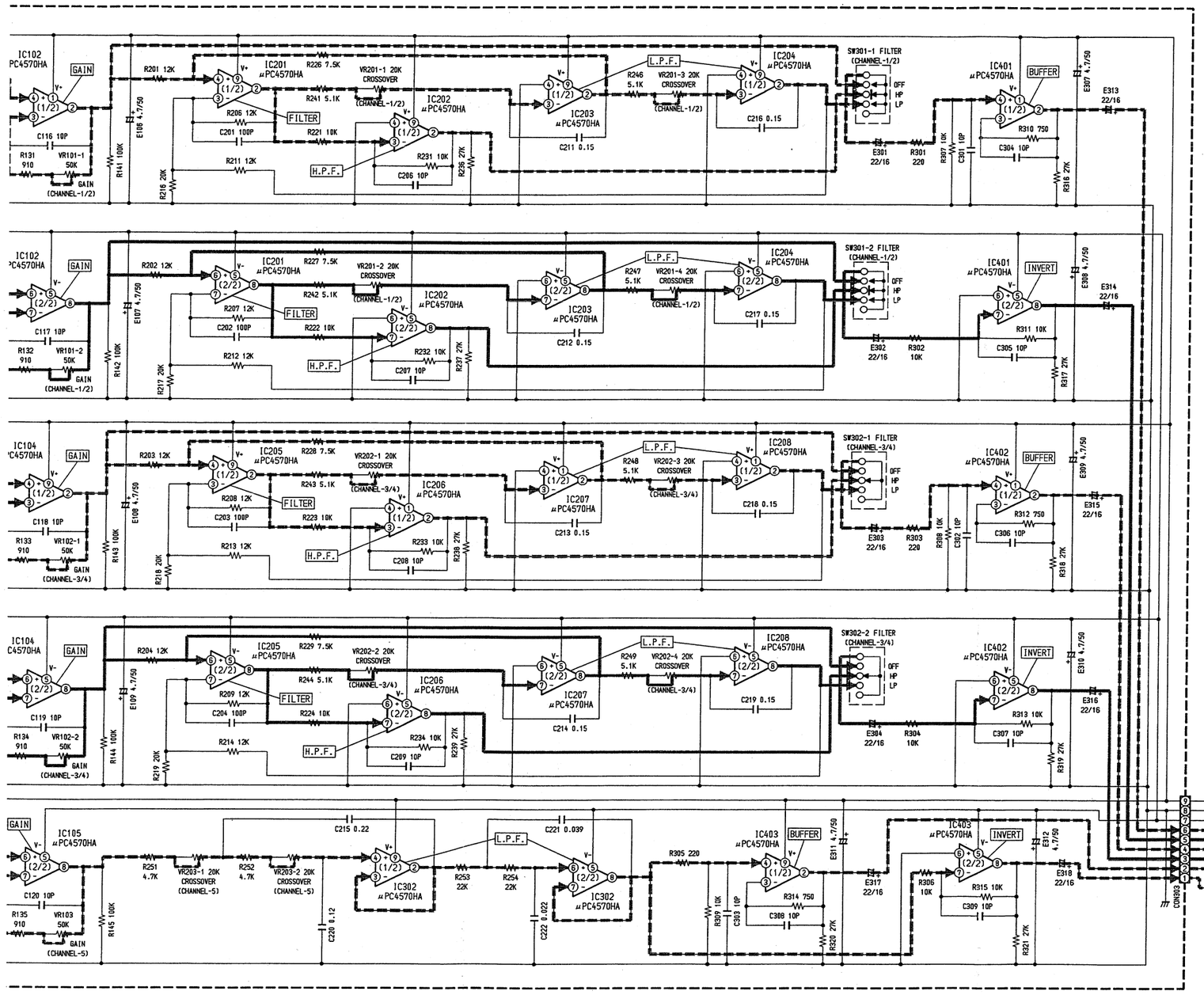
SW301-2 FILTER (CHANNEL-1/2)

SW302-1 FILTER (CHANNEL-3/4)

SW302-2 FILTER (CHANNEL-3/4)

OFF HP LP

IC102	IC201	IC202	IC203	IC204	IC401
IC104 IC105(2/2)	IC205	IC206 IC302(1/2)	IC207 IC302(2/2)	IC208 IC403(1/2)	IC402 IC403(2/2)



IC101

1	15.2V
2–4	0V
5	-14.8V
6–8	0V
9	NC

IC102

1	15.1V
2–4	0V
5	-14.8V
6–8	0V
9	NC

IC103

1	15V
2–4	0V
5	-15V
6–8	0V
9	NC

IC104, 204

1	NC
2–4	0V
5	-14.9V
6–8	0V
9	15.3V

IC105

1	15.3V
2–4	0V
5	-15V
6–8	0V
9	NC

IC106

1	15.4V
2–4	0V
5	-15V
6–8	0V
9	NC

IC201

1	NC
2–4	0V
5	-15.2V
6–8	0V
9	15.3V

IC202

1	NC
2–4	0V
5	-15.1V
6–8	0V
9	15.3V

IC203

1	NC
2–4	0V
5	-14.9V
6–8	0V
9	15.2V

IC205

1	15.2V
2–4	0V
5	-14.9V
6–8	0V
9	NC

IC206, 207, 208

1	15.3V
2–4	0V
5	-15V
6–8	0V
9	NC

IC302

1	NC
2–4	0V
5	-15V
6–8	0V
9	15.4V

IC401, 402

1	15.4V
2–4	0V
5	-15.1V
6–8	0V
9	NC

IC403

1	NC
2–4	0V
5	-15.1V
6–8	0V
9	15.4V

[Measuring Conditions]

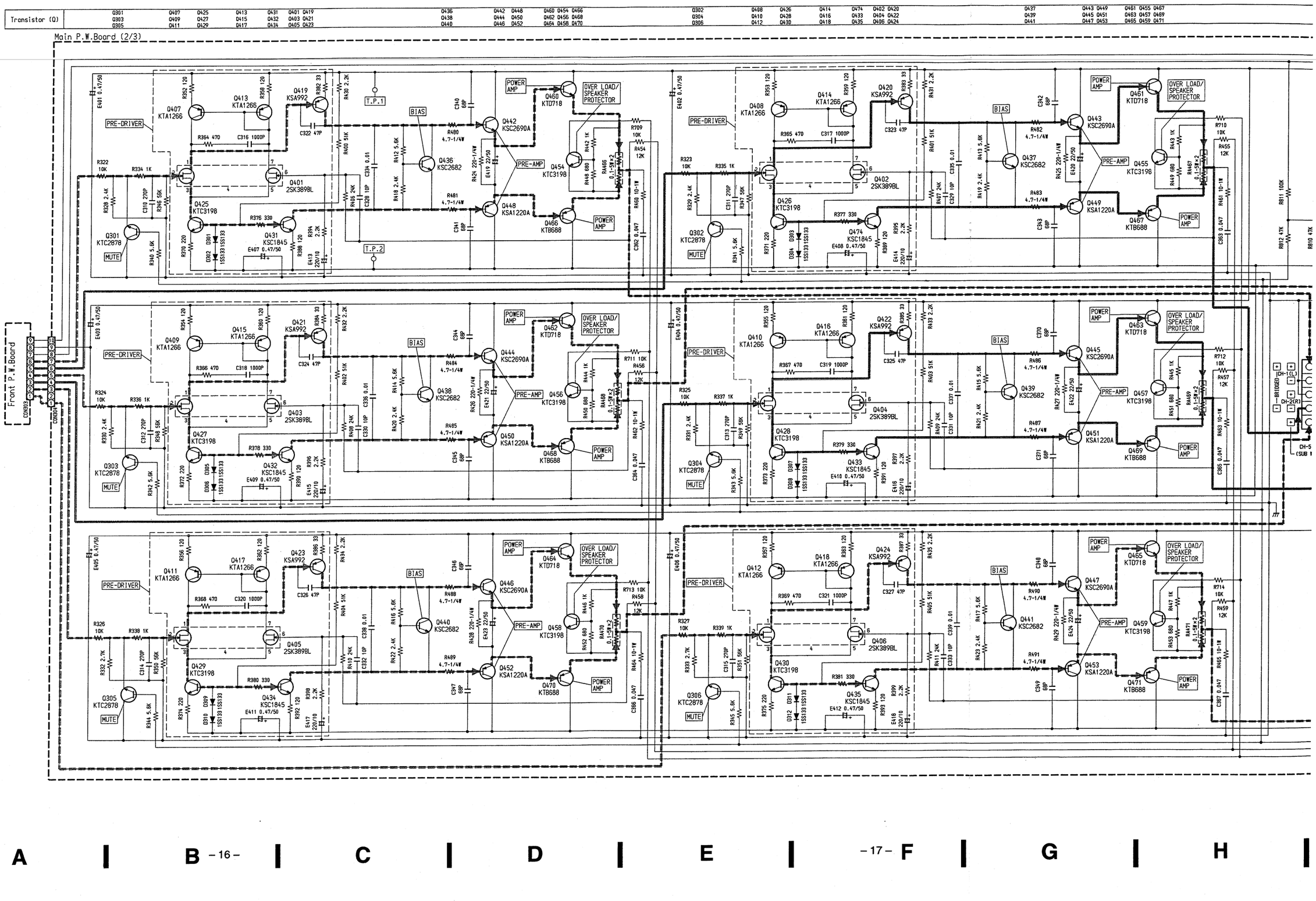
- Power Supply Voltage : DC14.4V
- Measuring Meter : Digital Multi Voltmeter
- Measuring Point Reference : Between Ground
- Measuring Conditions : No Signal Input

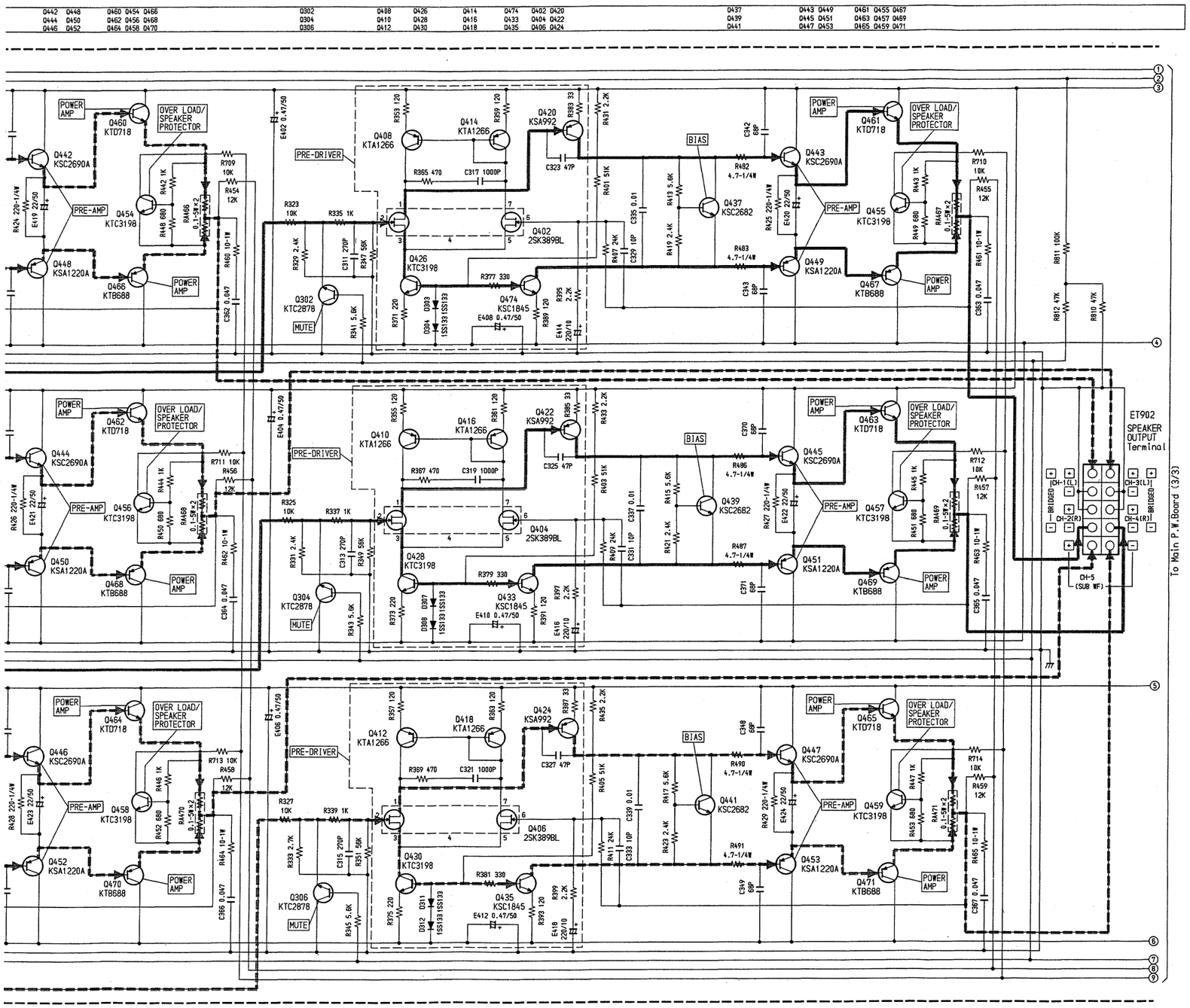
NOTE:

1. All resistance values are in ohms. K = 1,000
2. All capacitance values are in microfarads. $P = \frac{1}{1{,}000{,}000}$

D | E | F –14– | G | H | I | J –15– | K

Schematic Diagram (2/3)





	E	C	B		E	C	B		E	C	B
Q301	0V	0V	-4.8V	Q425	-25.7V	0.33V	-25.2V	Q449	-0.5V	-26.3V	-1.07V
Q302	0V	0V	-4.8V	Q426	-25.7V	0.4V	-25.2V	Q450	-0.52V	-26.3V	-1.05V
Q303	0V	0V	-4.8V	Q427	-25.8V	0.3V	-25.2V	Q451	-0.51V	-26.3V	-1.08V
Q304	0V	0V	-4.8V	Q428	-25.8V	0.32V	-25.2V	Q452	-0.51V	-30.1V	-1.07V
Q305	0V	0V	-4.8V	Q429	-29.6V	0.36V	-29V	Q453	-0.52V	-30.1V	-1.1V
Q306	0V	0V	-4.8V	Q430	-29.6V	0.29V	-29V	Q454	0V	26.2V	0V
Q407	26.2V	25.6V	25.6V	Q431	-25.8V	-1.05V	-25.2V	Q455	0V	26.2V	0V
Q408	26.2V	25.6V	25.6V	Q432	-25.7V	-1.1V	-25.2V	Q456	0V	26.4V	0V
Q409	26.2V	25.6V	25.6V	Q433	-25.7V	-1.07V	-25.2V	Q457	0V	26.4V	0V
Q410	26.2V	25.6V	25.6V	Q434	-29.6V	-1.03V	-29V	Q458	0V	26.4V	0V
Q411	30V	29.4V	29.4V	Q435	-29.6V	-1.07V	-29V	Q459	0V	26.4V	0V
Q412	30V	29.4V	29.4V	Q436	-1.05V	1.1V	-0.44V	Q460	0V	26.4V	0.56V
Q413	26.2V	25.6V	25.6V	Q437	-1.07V	1.1V	-0.45V	Q461	0V	26.4V	0.57V
Q414	26.2V	25.6V	25.6V	Q438	-1.07V	1.08V	-0.44V	Q462	0V	26.4V	0.56V
Q415	26.2V	25.6V	25.6V	Q439	-1.06V	1.09V	-0.44V	Q463	0V	26.4V	0.56V
Q416	26.2V	25.6V	25.6V	Q440	-1.03V	1.07V	-0.42V	Q464	0V	30.1V	0.55V
Q417	30V	29.4V	29.4V	Q441	-1.07V	1.1V	-0.46V	Q465	0V	30.1V	0.57V
Q418	30V	29.4V	29.4V	Q442	0.54V	26.3V	1.1V	Q466	0V	-26.4V	-0.53V
Q419	26.2V	1.1V	25.6V	Q443	0.55V	26.3V	1.1V	Q467	0V	-26.4V	-0.54V
Q420	26.2V	1.1V	25.6V	Q444	0.54V	26.3V	1.1V	Q468	0V	-26.4V	-0.53V
Q421	26.2V	1.1V	25.6V	Q445	0.54V	26.3V	1.1V	Q469	0V	-26.4V	-0.53V
Q422	26.2V	1.1V	25.6V	Q446	0.52V	30.1V	1.1V	Q470	0V	-30.1V	-0.51V
Q423	30V	1.1V	29.4V	Q447	0.56V	30.1V	1.1V	Q471	0V	-30.1V	-0.54V
Q424	30V	1.1V	29.4V	Q448	-0.52V	-26.3V	-1.07V	Q474	-25.6V	-1.1V	-25.2V

	1	2	3	4	5	6	7
Q401	25.6V	0V	0.32V	NC	0.32V	0V	25.6V
Q402	25.6V	0V	0.33V	NC	0.33V	0V	25.6V
Q403	25.6V	0V	0.3V	NC	0.3V	0V	25.6V
Q404	25.6V	0V	0.32V	NC	0.32V	0V	25.6V
Q405	29.4V	0V	0.35V	NC	0.35V	0V	29.4V
Q406	29.4V	0V	0.28V	NC	0.28V	0V	29.4V

[Measuring Conditions]

- Power Supply Voltage : DC14.4V
- Measuring Meter : Digital Multi Voltmeter
- Measuring Point Reference : Between Ground
- Measuring Conditions : No Signal Input

NOTE:
1. All resistance values are in ohms. K = 1,000
2. All capacitance values are in microfarads. P = $\frac{1}{1,000,000}$

Schematic Diagram (3/3)

IC	IC602 IC601
Transistor (Q,PT)	Q902 Q901 Q801 Q803 Q802 Q804 Q701 Q602 Q703 Q702 PT601 Q704 Q604 Q603 Q501 Q502 Q503 Q504 Q505 Q506 Q507 Q508 Q509 Q510 Q512 Q514

Main P.W.Board (3/3)

To Main P.W.Board (2/3)

PWM CONTROL
Q602 KTC3198
PT601 PS2501-1
R621 8.2K-1/4W
ZD604 MTZJ22B
TH603 20K
R614 10K
C601 0.01
R613 510
VR601 10K
R612 10K
E602 10/16
ZD602 MTZJ9.1B
E603 10/16

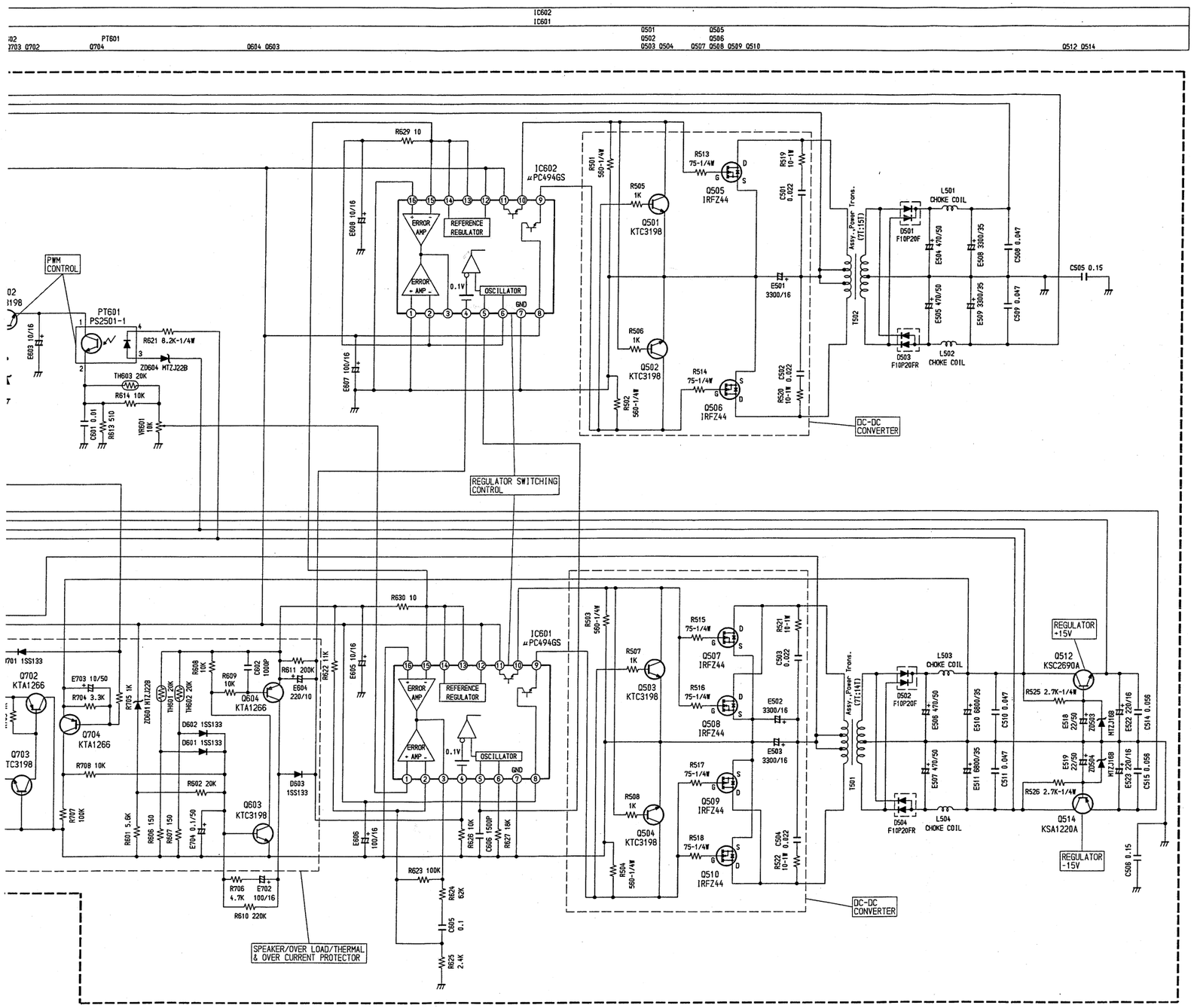
IC602 μPC494GS
REFERENCE REGULATOR
ERROR AMP
ERROR AMP
0.1V
OSCILLATOR
GND
E608 10/16
R629 10
E607 100/16
R501 560-1/4W
R502 560-1/4W
R505 1K
Q501 KTC3198
R506 1K
Q502 KTC3198
R513 75-1/4W
Q505 IRFZ44
R514 75-1/4W
Q506 IRFZ44
R519 10-1W
C501 0.022
R520 10-1W
C502 0.022
E501 3300/16
Assy. Power Trans. (T1:1517)
T502
L501 CHOKE COIL
D501 F10P20F
E504 470/50
E508 3300/35
C508 0.047
E505 470/50
E509 3300/35
C509 0.047
C505 0.15
D503 F10P20FR
L502 CHOKE COIL
DC-DC CONVERTER

REGULATOR SWITCHING CONTROL

T901 CHOKE TRANS.
F901 25A
T902 CHOKE TRANS.
F902 25A
BATTERY
REMOTE
GND
ET901 POWER SUPPLY Terminal
MUTE CIRCUIT
Q901 KTA1275
R904 3.3K
SWITCH
Q902 DTC143ES
R903 150K
D901 1N4003
R901 10K
C901 0.15
R902 3.6K
C902 100NP
R905 2.7K-1/8W
R906 7.5
R907 1K-1/4W
E901 3.3/50
R801 12K
D801 1N4003
Q801 KTA1266
R802 100K
R803 4.7K
D802 1SS133
D803 1SS133
D804 1SS133
D805 1N4003
R805 2K
E801 10/16
R804 100K
ZD801 MTZJ5.6A
E803 10/16
R806 2K
E802 10/16
R807 1M
Q802 KRA104M
Q803 KRC104M
R809 100K
R808 680K
Q804 KTC3198
CON901
CON902
C903 180P
LD901
SI23511
LED P.W.Board

Q701 KTC3198
Q702 KTA1266
Q703 KTC3198
Q704 KTA1266
R701 1K
E701 100/10 (B.P.)
R702 1K
R703 1K
R704 3.3K
E703 10/50
R705 1K
R707 100K
R708 10K
ZD601 MTZJ22B
TH601 20K
TH602 20K
R601 5.6K
R605 150
R607 150
E704 0.1/50
R602 20K
D601 1SS133
D602 1SS133
D603 1SS133
R609 10K
R608 10K
C602 1000P
R611 200K
E604 220/10
Q603 KTC3198
R706 4.7K
E702 100/16
R610 220K
SPEAKER/OVER LOAD/THERMAL & OVER CURRENT PROTECTOR

IC601 μPC494GS
REFERENCE REGULATOR
ERROR AMP
ERROR AMP
0.1V
OSCILLATOR
GND
E605 10/16
R630 10
E606 100/16
R503 560-1/4W
R504 560-1/4W
R507 1K
Q503 KTC3198
R508 1K
Q504 KTC3198
R515 75-1/4W
Q507 IRFZ44
R516 75-1/4W
Q508 IRFZ44
R517 75-1/4W
Q509 IRFZ44
R518 75-1/4W
Q510 IRFZ44
R521 10-1W
C503 0.022
C504 0.022
R522 10-1W
E502 3300/16
E503 3300/16
T501
L503 CHOKE COIL
D502 F10P20F
E506 470/50
E510 6800/35
C510 0.047
E507 470/50
E511 6800/35
C511 0.047
D504 F10P20FR
L504 CHOKE COIL
DC-DC CONVERTER
R623 100K
R624 62K
C605 0.1
R625 2.4K
R626 10K
C606 1500P
R627 18K
R622 11K
REGULATOR +15V
Q512 KSC2690A
R525 2.7K-1/4W
E518 22/50
ZD503 MTZJ18B
E519 22/50
ZD504 MTZJ18B
R526 2.7K-1/4W
Q514 KSA1220A
REGULATOR -15V



IC601

1, 2	0.96V	9	0.86V
3	3.85V	10	0.64V
4	0.27V	11	14.25V
5	1.75V	12	0V
6	3.86V	13	5.1V
7	0V	14~16	0V
8	14.25V		

IC602

1	0V	8	14.25V
2	5.1V	9, 10	5.6V
3	NC	11	14.25V
4	0.26V	12	0V
5	1.75V	13	5.1V
6	5.1V	14~16	0V
7	0V		

	G	D	S
Q505	5.58V	14.4V	0V
Q506	5.59V	14.4V	0V
Q507	0.64V	14.4V	0V
Q508	0.64V	14.4V	0V
Q509	0.85V	14.4V	0V
Q510	0.85V	14.4V	0V

	E	C	B		E	C	B
Q501	0V	5.45V	4.5V	Q702	25.9V	0V	25.9V
Q502	0V	5.47V	4.45V	Q703	0V	26V	0V
Q503	0V	0.6V	0.45V	Q704	5V	0.1V	26.2V
Q504	0V	0.61V	0.47V	Q801	6.4V	0V	6.4V
Q512	15.5V	26.3V	16V	Q802	14.4V	-4.8V	14.4V
Q514	-15.1V	-26.3V	-15.7V	Q803	0V	14.4V	0V
Q602	8.2V	14.3V	8.8V	Q804	0V	0V	0.55V
Q603	0V	5V	0.1V	Q901	14.4V	14.3V	13.6V
Q604	5V	0.13V	4.4V	Q902	0V	0V	2.7V
Q701	0V	26V	0V				

[Measuring Conditions]

- Power Supply Voltage : DC14.4V
- Measuring Meter : Digital Multi Voltmeter
- Measuring Point Reference : Between Ground
- Measuring Conditions : No Signal Input

NOTE:
1. All resistance values are in ohms. K = 1,000
2. All capacitance values are in microfarads. P = $\frac{1}{1,000,000}$

Electrical Parts List

Capacitor : μF=microfarads,pF=picofarads

Abbreviations	
RES.= Resistor	CAP.= Capacitor
C.F.= Carbon Film	ELY.= Electrolytic
M.F.= Metal Film	CER.= Ceramic
M.O.= Metal Oxide Film	MYL.= Mylar
M.P.= Metal Plate	TAN.= Tantalum
TR. = Transistor	POLY.= Polystyrol
TRANS.= Transformer	PP. = Polypropylene
CP. = Chip	PLT.= Polyethylene
	PF. = Polyester Film

Symbol No.	Part No.	Description
Main P.W.Board		
IC's / Photo Coupler		
IC601	51E27890S01	μPC494GS
IC602	51E27890S01	μPC494GS
PT601	48E25501S01	PS2501-1
Transistors / FET's		
Q301	48E08335S01	KTC2878
Q302	48E08335S01	KTC2878
Q303	48E08335S01	KTC2878
Q304	48E08335S01	KTC2878
Q305	48E08335S01	KTC2878
Q306	48E08335S01	KTC2878
Q401	48T61719F01	FET, 2SK389BL
Q402	48T61719F01	FET, 2SK389BL
Q403	48T61719F01	FET, 2SK389BL
Q404	48T61719F01	FET, 2SK389BL
Q405	48T61719F01	FET, 2SK389BL
Q406	48T61719F01	FET, 2SK389BL
Q407	48E09036S02	KTA1266
Q408	48E09036S02	KTA1266
Q409	48E09036S02	KTA1266
Q410	48E09036S02	KTA1266
Q411	48E09036S02	KTA1266
Q412	48E09036S02	KTA1266
Q413	48E09036S02	KTA1266
Q414	48E09036S02	KTA1266
Q415	48E09036S02	KTA1266
Q416	48E09036S02	KTA1266
Q417	48E09036S02	KTA1266
Q418	48E09036S02	KTA1266
Q419	48E27752S01	KSA922
Q420	48E27752S01	KSA922
Q421	48E27752S01	KSA922
Q422	48E27752S01	KSA922
Q423	48E27752S01	KSA922
Q424	48E27752S01	KSA922
Q425	48E09088S01	KTC3198
Q426	48E09088S01	KTC3198
Q427	48E09088S01	KTC3198
Q428	48E09088S01	KTC3198
Q429	48E09088S01	KTC3198
Q430	48E09088S01	KTC3198
Q431	48E27753S01	KSC1845
Q432	48E27753S01	KSC1845
Q433	48E27753S01	KSC1845
Q434	48E27753S01	KSC1845
Q435	48E27753S01	KSC1845
Q436	48E08329S01	KSC2682
Q437	48E08329S01	KSC2682
Q438	48E08329S01	KSC2682
Q439	48E08329S01	KSC2682
Q440	48E08329S01	KSC2682
Q441	48E08329S01	KSC2682
Q442	48E10027S01	KSC2690A
Q443	48E10027S01	KSC2690A
Q444	48E10027S01	KSC2690A
Q445	48E10027S01	KSC2690A
Q446	48E10027S01	KSC2690A
Q447	48E10027S01	KSC2690A
Q448	48E05943S01	KSA1220A
Q449	48E05943S01	KSA1220A
Q450	48E05943S01	KSA1220A
Q451	48E05943S01	KSA1220A
Q452	48E05943S01	KSA1220A
Q453	48E05943S01	KSA1220A
Q454	48E09088S01	KTC3198
Q455	48E09088S01	KTC3198
Q456	48E09088S01	KTC3198
Q457	48E09088S01	KTC3198
Q458	48E09088S01	KTC3198
Q459	48E09088S01	KTC3198
Q460	48E27748S01	KTD718
Q461	48E27748S01	KTD718
Q462	48E27748S01	KTD718
Q463	48E27748S01	KTD718
Q464	48E27748S01	KTD718
Q465	48E27748S01	KTD718
Q466	48E27747S01	KTB688
Q467	48E27747S01	KTB688
Q468	48E27747S01	KTB688

Symbol No.	Part No.	Description
Q469	48E27747S01	KTB688
Q470	48E27747S01	KTB688
Q471	48E27747S01	KTB688
Q474	48E27753S01	KSC1845
Q501	48E09088S01	KTC3198
Q502	48E09088S01	KTC3198
Q503	48E09088S01	KTC3198
Q504	48E09088S01	KTC3198
Q505	48E25311S01	FET, IRFZ44
Q506	48E25311S01	FET, IRFZ44
Q507	48E25311S01	FET, IRFZ44
Q508	48E25311S01	FET, IRFZ44
Q509	48E25311S01	FET, IRFZ44
Q510	48E25311S01	FET, IRFZ44
Q512	48E10027S01	KSC2690A
Q514	48E05943S01	KSA1220A
Q602	48E09088S01	KTC3198
Q603	48E09088S01	KTC3198
Q604	48E09036S02	KTA1266
Q701	48E09088S01	KTC3198
Q702	48E09036S02	KTA1266
Q703	48E09088S01	KTC3198
Q704	48E09036S02	KTA1266
Q801	48E09036S02	KTA1266
Q802	48E10239S01	KRA104M
Q803	48E09035S02	KRC104M
Q804	48E09088S01	KTC3198
Q901	48E23700S01	KTA1275
Q902	48E25515S01	DTC143ES
Diodes		
D301	48E22916S01	1SS133
D302	48E22916S01	1SS133
D303	48E22916S01	1SS133
D304	48E22916S01	1SS133
D305	48E22916S01	1SS133
D306	48E22916S01	1SS133
D307	48E22916S01	1SS133
D308	48E22916S01	1SS133
D309	48E22916S01	1SS133
D310	48E22916S01	1SS133
D311	48E22916S01	1SS133
D312	48E22916S01	1SS133
D501	48T65059W01	F10P20F
D502	48T65059W01	F10P20F
D503	48T65059W02	F10P20FR
D504	48T65059W02	F10P20FR

Symbol No.	Part No.	Description
D601	48E22916S01	1SS133
D602	48E22916S01	1SS133
D603	48E22916S01	1SS133
D701	48E22916S01	1SS133
D801	48E23703S01	1N4003
D802	48E22916S01	1SS133
D803	48E22916S01	1SS133
D804	48E22916S01	1SS133
D805	48E23703S01	1N4003
D901	48E23703S01	1N4003
ZD503	48E22436S01	Zener, MTZJ16B
ZD504	48E22436S01	Zener, MTZJ16B
ZD601	48E08332S01	Zener, MTZJ22B
ZD602	48E22162S01	Zener, MTZJ9.1B
ZD604	48E08332S01	Zener, MTZJ22B
ZD801	48E22917S01	Zener, MTZJ6.8A
Coils		
L501	25E20892S01	Choke
L502	25E20892S01	Choke
L503	25E20892S01	Choke
L504	25E20892S01	Choke
Thermistors		
TH601	48E20887S01	20K ohm
TH602	48E20887S01	20K ohm
TH603	48E20887S01	20K ohm
Transformers		
T501	01E27879S01	Assy., Power Trans. (7T:14T)
T502	01E27878S01	Assy., Power Trans. (7T:15T)
T901	24E27880S01	Choke, Trans.
T902	25E20891S01	Choke, Trans.
Capacitors		
C123	08E22081S01	CP., 1000pF
C310	08E20074S01	CER, 270pF
C311	08E20074S01	CER, 270pF
C312	08E20074S01	CER, 270pF
C313	08E20074S01	CER, 270pF
C314	08E20074S01	CER, 270pF
C315	08E20074S01	CER, 270pF

Symbo No.
C316
C317
C318
C319
C320
C321
C322
C323
C324
C325
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C332
C333
C334
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C362
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C365
C366
C367
C370
C371
C501
C502
C503
C504
C505
C506
C508

Symbol No.	Part No.	Description
Q469	48E27747S01	KTB688
Q470	48E27747S01	KTB688
Q471	48E27747S01	KTB688
Q474	48E27753S01	KSC1845
Q501	48E09088S01	KTC3198
Q502	48E09088S01	KTC3198
Q503	48E09088S01	KTC3198
Q504	48E09088S01	KTC3198
Q505	48E25311S01	FET, IRFZ44
Q506	48E25311S01	FET, IRFZ44
Q507	48E25311S01	FET, IRFZ44
Q508	48E25311S01	FET, IRFZ44
Q509	48E25311S01	FET, IRFZ44
Q510	48E25311S01	FET, IRFZ44
Q512	48E10027S01	KSC2690A
Q514	48E05943S01	KSA1220A
Q602	48E09088S01	KTC3198
Q603	48E09088S01	KTC3198
Q604	48E09036S02	KTA1266
Q701	48E09088S01	KTC3198
Q702	48E09036S02	KTA1266
Q703	48E09088S01	KTC3198
Q704	48E09036S02	KTA1266
Q801	48E09036S02	KTA1266
Q802	48E10239S01	KRA104M
Q803	48E09035S02	KRC104M
Q804	48E09088S01	KTC3198
Q901	48E23700S01	KTA1275
Q902	48E25515S01	DTC143ES

Diodes

D301	48E22916S01	1SS133
D302	48E22916S01	1SS133
D303	48E22916S01	1SS133
D304	48E22916S01	1SS133
D305	48E22916S01	1SS133
D306	48E22916S01	1SS133
D307	48E22916S01	1SS133
D308	48E22916S01	1SS133
D309	48E22916S01	1SS133
D310	48E22916S01	1SS133
D311	48E22916S01	1SS133
D312	48E22916S01	1SS133
D501	48T65059W01	F10P20F
D502	48T65059W01	F10P20F
D503	48T65059W02	F10P20FR
D504	48T65059W02	F10P20FR

Symbol No.	Part No.	Description
D601	48E22916S01	1SS133
D602	48E22916S01	1SS133
D603	48E22916S01	1SS133
D701	48E22916S01	1SS133
D801	48E23703S01	1N4003
D802	48E22916S01	1SS133
D803	48E22916S01	1SS133
D804	48E22916S01	1SS133
D805	48E23703S01	1N4003
D901	48E23703S01	1N4003
ZD503	48E22436S01	Zener, MTZJ16B
ZD504	48E22436S01	Zener, MTZJ16B
ZD601	48E08332S01	Zener, MTZJ22B
ZD602	48E22162S01	Zener, MTZJ9.1B
ZD604	48E08332S01	Zener, MTZJ22B
ZD801	48E22917S01	Zener, MTZJ6.8A

Coils

L501	25E20892S01	Choke
L502	25E20892S01	Choke
L503	25E20892S01	Choke
L504	25E20892S01	Choke

Thermistors

TH601	48E20887S01	20K ohm
TH602	48E20887S01	20K ohm
TH603	48E20887S01	20K ohm

Transformers

T501	01E27879S01	Assy., Power Trans. (7T:14T)
T502	01E27878S01	Assy., Power Trans. (7T:15T)
T901	24E27880S01	Choke, Trans.
T902	25E20891S01	Choke, Trans.

Capacitors

C123	08E22081S01	CP.,	1000pF
C310	08E20074S01	CER,	270pF
C311	08E20074S01	CER,	270pF
C312	08E20074S01	CER,	270pF
C313	08E20074S01	CER,	270pF
C314	08E20074S01	CER,	270pF
C315	08E20074S01	CER,	270pF

Symbol No.	Part No.	Description
C316	21E06808S03	CER, 1000pF
C317	21E06808S03	CER, 1000pF
C318	21E06808S03	CER, 1000pF
C319	21E06808S03	CER, 1000pF
C320	21E06808S03	CER, 1000pF
C321	21E06808S03	CER, 1000pF
C322	08E20915S01	CER, 47pF
C323	08E20915S01	CER, 47pF
C324	08E20915S01	CER, 47pF
C325	08E20915S01	CER, 47pF
C326	08E20915S01	CER, 47pF
C327	08E20915S01	CER, 47pF
C328	08E20072S01	CER, 10pF
C329	08E20072S01	CER, 10pF
C330	08E20072S01	CER, 10pF
C331	08E20072S01	CER, 10pF
C332	08E20072S01	CER, 10pF
C333	08E20072S01	CER, 10pF
C334	08E20216S01	MYL, 0.01µF
C335	08E20216S01	MYL, 0.01µF
C336	08E20216S01	MYL, 0.01µF
C337	08E20216S01	MYL, 0.01µF
C338	08E20216S01	MYL, 0.01µF
C339	08E20216S01	MYL, 0.01µF
C340	08E22549S01	CP., 68pF
C341	08E22549S01	CP., 68pF
C342	08E22549S01	CP., 68pF
C343	08E22549S01	CP., 68pF
C344	08E22549S01	CP., 68pF
C345	08E22549S01	CP., 68pF
C346	08E22549S01	CP., 68pF
C347	08E22549S01	CP., 68pF
C348	08E22549S01	CP., 68pF
C349	08E22549S01	CP., 68pF
C362	08E07631S18	MYL, 0.047µF
C363	08E07631S18	MYL, 0.047µF
C364	08E07631S18	MYL, 0.047µF
C365	08E07631S18	MYL, 0.047µF
C366	08E07631S18	MYL, 0.047µF
C367	08E07631S18	MYL, 0.047µF
C370	08E22549S01	CP., 68pF
C371	08E22549S01	CP., 68pF
C501	08E07631S10	MYL, 0.022µF
C502	08E07631S10	MYL, 0.022µF
C503	08E07631S10	MYL, 0.022µF
C504	08E07631S10	MYL, 0.022µF
C505	08E07631S11	MYL, 0.15µF
C506	08E07631S11	MYL, 0.15µF
C508	08E07631S18	MYL, 0.047µF

Symbol No.	Part No.	Description
C509	08E07631S18	MYL, 0.047µF
C510	08E07631S18	MYL, 0.047µF
C511	08E07631S18	MYL, 0.047µF
C514	08E20913S01	MYL, 0.056µF
C515	08E20913S01	MYL, 0.056µF
C601	08E20216S01	MYL, 0.01µF
C602	08E22081S01	CP., 1000pF
C605	08E07631S08	MYL, 0.1µF
C606	08E25318S01	TF, 1500pF
C901	08E07631S11	MYL, 0.15µF
C902	08E22081S01	CP., 1000pF
E401	23E08383S10	ELY., 0.47µF / 50V
E402	23E08383S10	ELY., 0.47µF / 50V
E403	23E08383S10	ELY., 0.47µF / 50V
E404	23E08383S10	ELY., 0.47µF / 50V
E405	23E08383S10	ELY., 0.47µF / 50V
E406	23E08383S10	ELY., 0.47µF / 50V
E407	23E08383S10	ELY., 0.47µF / 50V
E408	23E08383S10	ELY., 0.47µF / 50V
E409	23E08383S10	ELY., 0.47µF / 50V
E410	23E08383S10	ELY., 0.47µF / 50V
E411	23E08383S10	ELY., 0.47µF / 50V
E412	23E08383S10	ELY., 0.47µF / 50V
E413	23E08383S03	ELY., 220µF / 10V
E414	23E08383S03	ELY., 220µF / 10V
E415	23E08383S03	ELY., 220µF / 10V
E416	23E08383S03	ELY., 220µF / 10V
E417	23E08383S03	ELY., 220µF / 10V
E418	23E08383S03	ELY., 220µF / 10V
E419	23E08383S12	ELY., 22µF / 50V
E420	23E08383S12	ELY., 22µF / 50V
E421	23E08383S12	ELY., 22µF / 50V
E422	23E08383S12	ELY., 22µF / 50V
E423	23E08383S12	ELY., 22µF / 50V
E424	23E08383S12	ELY., 22µF / 50V
E501	23T75491W14	ELY., 3300µF / 16V
E502	23T75491W14	ELY., 3300µF / 16V
E503	23T75491W14	ELY., 3300µF / 16V
E504	23E22148S01	ELY., 470µF / 50V
E505	23E22148S01	ELY., 470µF / 50V
E506	23E22148S01	ELY., 470µF / 50V
E507	23E22148S01	ELY., 470µF / 50V
E508	23T15345Y01	ELY., 3300µF / 35V
E509	23T15345Y01	ELY., 3300µF / 35V
E510	23T15345Y02	ELY., 6800µF / 35V
E511	23T15345Y02	ELY., 6800µF / 35V
E518	23E08383S12	ELY., 22µF / 50V
E519	23E08383S12	ELY., 22µF / 50V
E522	23E20210S01	ELY., 220µF / 16V

Symbol No.	Part No.	Description
E523	23E20210S01	ELY., 220µF / 16V
E602	23E08383S08	ELY., 10µF / 16V
E603	23E08383S08	ELY., 10µF / 16V
E604	23E08383S03	ELY., 220µF / 10V
E605	23E08383S08	ELY., 10µF / 16V
E606	23E10238S01	ELY., 100µF / 16V
E607	23E10238S01	ELY., 100µF / 16V
E608	23E08383S08	ELY., 10µF / 16V
E701	23E11142S01	ELY., (B.P) 100µF / 10V
E702	23E10238S01	ELY., 100µF / 16V
E703	23E22158S01	ELY., 10µF / 50V
E704	23E08383S18	ELY., 0.1µF / 50V
E801	23E08383S08	ELY., 10µF / 16V
E802	23E08383S08	ELY., 10µF / 16V
E803	23E08383S08	ELY., 10µF / 16V
E901	23E20908S01	ELY., 3.3µF / 50V
Resistors		(All resistors are chip 1/10W±5% unless otherwise noted.)
R322	——	C.F., 10K ohm 1/8W
R323	——	C.F., 10K ohm 1/8W
R324	——	C.F., 10K ohm 1/8W
R325	——	C.F., 10K ohm 1/8W
R326	——	C.F., 10K ohm 1/8W
R327	——	C.F., 10K ohm 1/8W
R328	——	C.F., 2.4K ohm 1/8W
R329	——	C.F., 2.4K ohm 1/8W
R330	——	C.F., 2.4K ohm 1/8W
R331	——	C.F., 2.4K ohm 1/8W
R332	——	C.F., 2.7K ohm 1/8W
R333	——	C.F., 2.7K ohm 1/8W
R334	——	C.F., 1K ohm 1/8W
R335	——	C.F., 1K ohm 1/8W
R336	——	C.F., 1K ohm 1/8W
R337	——	C.F., 1K ohm 1/8W
R338	——	C.F., 1K ohm 1/8W
R339	——	C.F., 1K ohm 1/8W
R340	——	C.F., 5.6K ohm 1/8W
R341	——	C.F., 5.6K ohm 1/8W
R342	——	C.F., 5.6K ohm 1/8W
R343	——	C.F., 5.6K ohm 1/8W
R344	——	C.F., 5.6K ohm 1/8W
R345	——	C.F., 5.6K ohm 1/8W
R346	——	C.F., 56K ohm 1/8W
R347	——	C.F., 56K ohm 1/8W
R348	——	C.F., 56K ohm 1/8W
R349	——	C.F., 56K ohm 1/8W
R350	——	C.F., 56K ohm 1/8W

Symbol No.	Part No.	Description
R351	——	C.F., 56K ohm 1/8W
R352	——	C.F., 120 ohm 1/8W
R353	——	C.F., 120 ohm 1/8W
R354	——	C.F., 120 ohm 1/8W
R355	——	C.F., 120 ohm 1/8W
R356	——	C.F., 120 ohm 1/8W
R357	——	C.F., 120 ohm 1/8W
R358	——	C.F., 120 ohm 1/8W
R359	——	C.F., 120 ohm 1/8W
R360	——	C.F., 120 ohm 1/8W
R361	——	C.F., 120 ohm 1/8W
R362	——	C.F., 120 ohm 1/8W
R363	——	C.F., 120 ohm 1/8W
R364	——	C.F., 470 ohm 1/8W
R365	——	C.F., 470 ohm 1/8W
R366	——	C.F., 470 ohm 1/8W
R367	——	C.F., 470 ohm 1/8W
R368	——	C.F., 470 ohm 1/8W
R369	——	C.F., 470 ohm 1/8W
R370	——	C.F., 220 ohm 1/8W
R371	——	C.F., 220 ohm 1/8W
R372	——	C.F., 220 ohm 1/8W
R373	——	C.F., 220 ohm 1/8W
R374	——	C.F., 220 ohm 1/8W
R375	——	C.F., 220 ohm 1/8W
R376	——	C.F., 330 ohm 1/8W
R377	——	C.F., 330 ohm 1/8W
R378	——	C.F., 330 ohm 1/8W
R379	——	C.F., 330 ohm 1/8W
R380	——	C.F., 330 ohm 1/8W
R381	——	C.F., 330 ohm 1/8W
R382	——	C.F., 33 ohm 1/8W
R383	——	C.F., 33 ohm 1/8W
R384	——	C.F., 33 ohm 1/8W
R385	——	C.F., 33 ohm 1/8W
R386	——	C.F., 33 ohm 1/8W
R387	——	C.F., 33 ohm 1/8W
R388	——	C.F., 120 ohm 1/8W
R389	——	C.F., 120 ohm 1/8W
R390	——	C.F., 120 ohm 1/8W
R391	——	C.F., 120 ohm 1/8W
R392	——	C.F., 120 ohm 1/8W
R393	——	C.F., 120 ohm 1/8W
R394	——	C.F., 2.2K ohm 1/8W
R395	——	C.F., 2.2K ohm 1/8W
R396	——	C.F., 2.2K ohm 1/8W
R397	——	C.F., 2.2K ohm 1/8W
R398	——	C.F., 2.2K ohm 1/8W
R399	——	C.F., 2.2K ohm 1/8W

Symbol No.	Part No.	Description
R400	—	C.F., 51K ohm 1/8W
R401	—	C.F., 51K ohm 1/8W
R402	—	C.F., 51K ohm 1/8W
R403	—	C.F., 51K ohm 1/8W
R404	—	C.F., 51K ohm 1/8W
R405	—	C.F., 51K ohm 1/8W
R406	—	C.F., 24K ohm 1/8W
R407	—	C.F., 24K ohm 1/8W
R408	—	C.F., 24K ohm 1/8W
R409	—	C.F., 24K ohm 1/8W
R410	—	C.F., 24K ohm 1/8W
R411	—	C.F., 24K ohm 1/8W
R412	—	C.F., 5.6K ohm 1/8W
R413	—	C.F., 5.6K ohm 1/8W
R414	—	C.F., 5.6K ohm 1/8W
R415	—	C.F., 5.6K ohm 1/8W
R416	—	C.F., 5.6K ohm 1/8W
R417	—	C.F., 5.6K ohm 1/8W
R418	—	C.F., 2.4K ohm 1/8W
R419	—	C.F., 2.4K ohm 1/8W
R420	—	C.F., 2.4K ohm 1/8W
R421	—	C.F., 2.4K ohm 1/8W
R422	—	C.F., 2.4K ohm 1/8W
R423	—	C.F., 2.4K ohm 1/8W
R424	—	C.F., 220 ohm 1/4W
R425	—	C.F., 220 ohm 1/4W
R426	—	C.F., 220 ohm 1/4W
R427	—	C.F., 220 ohm 1/4W
R428	—	C.F., 220 ohm 1/4W
R429	—	C.F., 220 ohm 1/4W
R430	—	C.F., 2.2K ohm 1/8W
R431	—	C.F., 2.2K ohm 1/8W
R432	—	C.F., 2.2K ohm 1/8W
R433	—	C.F., 2.2K ohm 1/8W
R434	—	C.F., 2.2K ohm 1/8W
R435	—	C.F., 2.2K ohm 1/8W
R442	06E22048S01	1K ohm
R443	06E22048S01	1K ohm
R444	06E22048S01	1K ohm
R445	06E22048S01	1K ohm
R446	06E22048S01	1K ohm
R447	06E22048S01	1K ohm
R448	06E22046S01	680 ohm
R449	06E22046S01	680 ohm
R450	06E22046S01	680 ohm
R451	06E22046S01	680 ohm
R452	06E22046S01	680 ohm
R453	06E22046S01	680 ohm
R454	06E22058S01	12K ohm

Symbol No.	Part No.	Description
R455	06E22058S01	12K ohm
R456	06E22058S01	12K ohm
R457	06E22058S01	12K ohm
R458	06E22058S01	12K ohm
R459	06E22058S01	12K ohm
R460	06E20907S01	M.O., 10 ohm 1W
R461	06E20907S01	M.O., 10 ohm 1W
R462	06E20907S01	M.O., 10 ohm 1W
R463	06E20907S01	M.O., 10 ohm 1W
R464	06E20907S01	M.O., 10 ohm 1W
R465	06E20907S01	M.O., 10 ohm 1W
R480	—	C.F., 4.7 ohm 1/4W
R481	—	C.F., 4.7 ohm 1/4W
R482	—	C.F., 4.7 ohm 1/4W
R483	—	C.F., 4.7 ohm 1/4W
R484	—	C.F., 4.7 ohm 1/4W
R485	—	C.F., 4.7 ohm 1/4W
R486	—	C.F., 4.7 ohm 1/4W
R487	—	C.F., 4.7 ohm 1/4W
R488	—	C.F., 4.7 ohm 1/4W
R489	—	C.F., 4.7 ohm 1/4W
R490	—	C.F., 4.7 ohm 1/4W
R491	—	C.F., 4.7 ohm 1/4W
R501	06E20547S01	560 ohm 1/4W
R502	06E20547S01	560 ohm 1/4W
R503	06E20547S01	560 ohm 1/4W
R504	06E20547S01	560 ohm 1/4W
R505	06E22048S01	1K ohm
R506	06E22048S01	1K ohm
R507	06E22048S01	1K ohm
R508	06E22048S01	1K ohm
R513	—	C.F., 75 ohm 1/4W
R514	—	C.F., 75 ohm 1/4W
R515	—	C.F., 75 ohm 1/4W
R516	—	C.F., 75 ohm 1/4W
R517	—	C.F., 75 ohm 1/4W
R518	—	C.F., 75 ohm 1/4W
R519	06E20907S01	M.O., 10 ohm 1W
R520	06E20907S01	M.O., 10 ohm 1W
R521	06E20907S01	M.O., 10 ohm 1W
R522	06E20907S01	M.O., 10 ohm 1W
R525	—	C.F., 2.7K ohm 1/4W
R526	—	C.F., 2.7K ohm 1/4W
R601	06E22111S01	5.6K ohm
R602	06E22508S01	20K ohm
R606	06E24189S01	150 ohm
R607	06E25421S01	150 ohm 1/8W
R608	06E20903S01	10K ohm
R609	06E20903S01	10K ohm

Symbol No.	Part No.	Description
R610	06E22066S01	220K ohm
R611	06E27889S01	200K ohm
R612	06E20903S01	10K ohm
R613	06E23857S01	510 ohm
R614	06E20903S01	10K ohm
R621	——	C.F., 8.2K ohm 1/4W
R622	06E22112S01	11K ohm
R623	06E22065S01	100K ohm
R624	06E25508S01	62K ohm 1/8W
R625	06E22924S01	2.4K ohm
R626	06E20903S01	10K ohm
R627	06E22059S01	18K ohm
R629	06E25506S01	10 ohm 1/8W
R630	06E25506S01	10 ohm 1/8W
R701	06E22030S01	1K ohm 1/8W
R702	06E22048S01	1K ohm
R703	06E22048S01	1K ohm
R704	06E22053S01	3.3K ohm
R705	06E22030S01	1K ohm 1/8W
R706	06E22055S01	4.7K ohm
R707	06E22065S01	100K ohm
R708	06E26014S01	10K ohm 1/8W
R709	06E20903S01	10K ohm
R710	06E20903S01	10K ohm
R711	06E20903S01	10K ohm
R712	06E20903S01	10K ohm
R713	06E20903S01	10K ohm
R714	06E20903S01	10K ohm
R801	06E22058S01	12K ohm
R802	06E22065S01	100K ohm
R803	06E22033S01	4.7K ohm 1/8W
R804	06E22065S01	100K ohm
R805	06E22545S01	2K ohm
R806	06E22545S01	2K ohm
R807	06E22068S01	1M ohm
R808	06E23824S01	680K ohm 1/8W
R809	06E22065S01	100K ohm
R810	06E22062S01	47K ohm
R811	06E22065S01	100K ohm
R812	06E22062S01	47K ohm
R901	06E20903S01	10K ohm
R902	06E22506S01	3.6K ohm
R903	06E23739S01	150K ohm 1/8W
R904	06E22053S01	3.3K ohm
R905	06E22127S01	2.7K ohm 1/8W
R906	06E23689S01	7.5 ohm
R907	06E22074S01	1K ohm 1/4W
RA466	06E22136S01	Cement, 0.1ohm 5W X2
RA467	06E22136S01	Cement, 0.1ohm 5W X2
RA468	06E22136S01	Cement, 0.1ohm 5W X2
RA469	06E22136S01	Cement, 0.1ohm 5W X2
RA470	06E22136S01	Cement, 0.1ohm 5W X2
RA471	06E22136S01	Cement, 0.1ohm 5W X2
VR601	18E20754S01	Variable, 10K ohm

Connectors

CON304	01E29375S01	Assy., Connector 10P-9P
CON901	09E27780S01	CONN BASE, GIL-S-02P-S2T2
SD101	01E27885S01	Assy., Shield Wire
SD103	01E27886S01	Assy., Shield Wire

Front P.W.Board

IC's

IC101	51E22137S01	μPC4570HA
IC102	51E22137S01	μPC4570HA
IC103	51E22137S01	μPC4570HA
IC104	51E22137S01	μPC4570HA
IC105	51E22137S01	μPC4570HA
IC106	51E22137S01	μPC4570HA
IC201	51E22137S01	μPC4570HA
IC202	51E22137S01	μPC4570HA
IC203	51E22137S01	μPC4570HA
IC204	51E22137S01	μPC4570HA
IC205	51E22137S01	μPC4570HA
IC206	51E22137S01	μPC4570HA
IC207	51E22137S01	μPC4570HA
IC208	51E22137S01	μPC4570HA
IC302	51E22137S01	μPC4570HA
IC401	51E22137S01	μPC4570HA
IC402	51E22137S01	μPC4570HA
IC403	51E22137S01	μPC4570HA

Switches

SW101	40E20895S01	Slide, SSAF123NA (INPUT CHANNEL CH-5)
SW301	40E20895S01	Slide, SSAF123NA (FILTER CH-1,2)
SW302	40E20895S01	Slide, SSAF123NA (FILTER CH-3,4)

Symbol No.	Part No.	Description
Capacitors		
C101	08E22899S01	CP., 100pF
C102	08E22899S01	CP., 100pF
C103	08E22899S01	CP., 100pF
C104	08E22899S01	CP., 100pF
C105	08E22899S01	CP., 100pF
C106	08E23581S01	CP., 33pF
C107	08E23581S01	CP., 33pF
C108	08E23581S01	CP., 33pF
C109	08E23581S01	CP., 33pF
C110	08E23581S01	CP., 33pF
C111	08E23581S01	CP., 33pF
C112	08E23581S01	CP., 33pF
C113	08E23581S01	CP., 33pF
C114	08E23581S01	CP., 33pF
C115	08E23581S01	CP., 33pF
C116	08E08423S03	CP., 10pF
C117	08E08423S03	CP., 10pF
C118	08E08423S03	CP., 10pF
C119	08E08423S03	CP., 10pF
C120	08E08423S03	CP., 10pF
C121	08E23581S01	CP., 33pF
C122	08E23581S01	CP., 33pF
C201	08E22899S01	CP., 100pF
C202	08E22899S01	CP., 100pF
C203	08E22899S01	CP., 100pF
C204	08E22899S01	CP., 100pF
C206	08E08423S03	CP., 10pF
C207	08E08423S03	CP., 10pF
C208	08E08423S03	CP., 10pF
C209	08E08423S03	CP., 10pF
C211	08E07631S11	MYL., 0.15μF
C212	08E07631S11	MYL., 0.15μF
C213	08E07631S11	MYL., 0.15μF
C214	08E07631S11	MYL., 0.15μF
C215	08E07631S24	MYL., 0.22μF
C216	08E07631S11	MYL., 0.15μF
C217	08E07631S11	MYL., 0.15μF
C218	08E07631S11	MYL., 0.15μF
C219	08E07631S11	MYL., 0.15μF
C220	08E07631S19	MYL., 0.12μF
C221	08E07631S17	MYL., 0.039μF
C222	08E07631S10	MYL., 0.022μF
C301	08E08423S03	CP., 10pF
C302	08E08423S03	CP., 10pF
C303	08E08423S03	CP., 10pF
C304	08E08423S03	CP., 10pF
C305	08E08423S03	CP., 10pF

Symbol No.	Part No.	Description
C306	08E08423S03	CP., 10pF
C307	08E08423S03	CP., 10pF
C308	08E08423S03	CP., 10pF
C309	08E08423S03	CP., 10pF
E101	23E08383S08	ELY., 10μF / 16V
E102	23E08383S08	ELY., 10μF / 16V
E103	23E08383S08	ELY., 10μF / 16V
E104	23E08383S08	ELY., 10μF / 16V
E105	23E08383S08	ELY., 10μF / 16V
E106	23E08383S16	ELY., 4.7μF / 50V
E107	23E08383S16	ELY., 4.7μF / 50V
E108	23E08383S16	ELY., 4.7μF / 50V
E109	23E08383S16	ELY., 4.7μF / 50V
E301	23E08383S13	ELY., 22μF / 16V
E302	23E08383S13	ELY., 22μF / 16V
E303	23E08383S13	ELY., 22μF / 16V
E304	23E08383S13	ELY., 22μF / 16V
E307	23E08383S16	ELY., 4.7μF / 50V
E308	23E08383S16	ELY., 4.7μF / 50V
E309	23E08383S16	ELY., 4.7μF / 50V
E310	23E08383S16	ELY., 4.7μF / 50V
E311	23E08383S16	ELY., 4.7μF / 50V
E312	23E08383S16	ELY., 4.7μF / 50V
E313	23E08383S13	ELY., 22μF / 16V
E314	23E08383S13	ELY., 22μF / 16V
E315	23E08383S13	ELY., 22μF / 16V
E316	23E08383S13	ELY., 22μF / 16V
E317	23E08383S13	ELY., 22μF / 16V
E318	23E08383S13	ELY., 22μF / 16V
Resistors		(All resistors are chip 1/10W±5% unless otherwise noted.)
R101	——	C.F., 22K ohm 1/8W
R102	——	C.F., 22K ohm 1/8W
R103	——	C.F., 22K ohm 1/8W
R104	——	C.F., 22K ohm 1/8W
R105	——	C.F., 22K ohm 1/8W
R106	——	C.F., 100 ohm 1/8W
R107	——	C.F., 100 ohm 1/8W
R108	——	C.F., 100 ohm 1/8W
R109	——	C.F., 100 ohm 1/8W
R110	——	C.F., 100 ohm 1/8W
R111	——	C.F., 220K ohm 1/8W
R112	——	C.F., 220K ohm 1/8W
R113	——	C.F., 220K ohm 1/8W
R114	——	C.F., 220K ohm 1/8W
R115	——	C.F., 220K ohm 1/8W
R116	——	C.F., 750 ohm 1/8W

Symbol No.	Part No.	Description
R117	——	C.F., 750 ohm 1/8W
R118	——	C.F., 750 ohm 1/8W
R119	——	C.F., 750 ohm 1/8W
R120	——	C.F., 750 ohm 1/8W
R121	——	C.F., 1K ohm 1/8W
R122	——	C.F., 1K ohm 1/8W
R123	——	C.F., 1K ohm 1/8W
R124	——	C.F., 1K ohm 1/8W
R125	——	C.F., 1K ohm 1/8W
R126	——	C.F., 22K ohm 1/8W
R127	——	C.F., 22K ohm 1/8W
R128	——	C.F., 22K ohm 1/8W
R129	——	C.F., 22K ohm 1/8W
R130	——	C.F., 22K ohm 1/8W
R131	——	C.F., 910 ohm 1/8W
R132	——	C.F., 910 ohm 1/8W
R133	——	C.F., 910 ohm 1/8W
R134	——	C.F., 910 ohm 1/8W
R135	——	C.F., 910 ohm 1/8W
R136	——	C.F., 1.5K ohm 1/8W
R137	——	C.F., 1.5K ohm 1/8W
R138	——	C.F., 1.5K ohm 1/8W
R139	——	C.F., 1.5K ohm 1/8W
R140	——	C.F., 1.5K ohm 1/8W
R141	——	C.F., 100K ohm 1/8W
R142	——	C.F., 100K ohm 1/8W
R143	——	C.F., 100K ohm 1/8W
R144	——	C.F., 100K ohm 1/8W
R145	——	C.F., 100K ohm 1/8W
R146	——	C.F., 11K ohm 1/8W
R147	——	C.F., 11K ohm 1/8W
R148	——	C.F., 11K ohm 1/8W
R149	——	C.F., 11K ohm 1/8W
R150	——	C.F., 1M ohm 1/8W
R151	——	C.F., 1M ohm 1/8W
R152	——	C.F., 750 ohm 1/8W
R153	——	C.F., 750 ohm 1/8W
R154	——	C.F., 330 ohm 1/8W
R155	——	C.F., 330 ohm 1/8W
R201	——	C.F., 12K ohm 1/8W
R202	——	C.F., 12K ohm 1/8W
R203	——	C.F., 12K ohm 1/8W
R204	——	C.F., 12K ohm 1/8W
R206	——	C.F., 12K ohm 1/8W
R207	——	C.F., 12K ohm 1/8W
R208	——	C.F., 12K ohm 1/8W
R209	——	C.F., 12K ohm 1/8W
R211	——	C.F., 12K ohm 1/8W
R212	——	C.F., 12K ohm 1/8W

Symbol No.	Part No.	Description
R213	——	C.F., 12K ohm 1/8W
R214	——	C.F., 12K ohm 1/8W
R216	——	C.F., 20K ohm 1/8W
R217	——	C.F., 20K ohm 1/8W
R218	——	C.F., 20K ohm 1/8W
R219	——	C.F., 20K ohm 1/8W
R221	——	C.F., 10K ohm 1/8W
R222	——	C.F., 10K ohm 1/8W
R223	——	C.F., 10K ohm 1/8W
R224	——	C.F., 10K ohm 1/8W
R226	——	C.F., 7.5K ohm 1/8W
R227	——	C.F., 7.5K ohm 1/8W
R228	——	C.F., 7.5K ohm 1/8W
R229	——	C.F., 7.5K ohm 1/8W
R231	——	C.F., 10K ohm 1/8W
R232	——	C.F., 10K ohm 1/8W
R233	——	C.F., 10K ohm 1/8W
R234	——	C.F., 10K ohm 1/8W
R236	——	C.F., 27K ohm 1/8W
R237	——	C.F., 27K ohm 1/8W
R238	——	C.F., 27K ohm 1/8W
R239	——	C.F., 27K ohm 1/8W
R241	——	C.F., 5.1K ohm 1/8W
R242	——	C.F., 5.1K ohm 1/8W
R243	——	C.F., 5.1K ohm 1/8W
R244	——	C.F., 5.1K ohm 1/8W
R246	——	C.F., 5.1K ohm 1/8W
R247	——	C.F., 5.1K ohm 1/8W
R248	——	C.F., 5.1K ohm 1/8W
R249	——	C.F., 5.1K ohm 1/8W
R251	——	C.F., 4.7K ohm 1/8W
R252	——	C.F., 4.7K ohm 1/8W
R253	——	C.F., 22K ohm 1/8W
R254	——	C.F., 22K ohm 1/8W
R301	——	C.F., 220 ohm 1/8W
R302	——	C.F., 10K ohm 1/8W
R303	——	C.F., 220 ohm 1/8W
R304	——	C.F., 10K ohm 1/8W
R305	——	C.F., 220 ohm 1/8W
R306	——	C.F., 10K ohm 1/8W
R307	——	C.F., 10K ohm 1/8W
R308	——	C.F., 10K ohm 1/8W
R309	——	C.F., 10K ohm 1/8W
R310	——	C.F., 750 ohm 1/8W
R311	——	C.F., 10K ohm 1/8W
R312	——	C.F., 750 ohm 1/8W
R313	——	C.F., 10K ohm 1/8W
R314	——	C.F., 750 ohm 1/8W
R315	——	C.F., 10K ohm 1/8W

Symbol No.	Part No.	Description
R316	——	C.F., 27K ohm 1/8W
R317	——	C.F., 27K ohm 1/8W
R318	——	C.F., 27K ohm 1/8W
R319	——	C.F., 27K ohm 1/8W
R320	——	C.F., 27K ohm 1/8W
R321	——	C.F., 27K ohm 1/8W
VR101	18E20880S01	Volume, 50K ohm X2 (GAIN CH-1,2)
VR102	18E20880S01	Volume, 50K ohm X2 (GAIN CH-3,4)
VR103	18E23672S01	Volume, 50K ohm (GAIN CH-5)
VR201	18E20879S01	Volume, 20K ohm X4 (CROSSOVER CH-1,2)
VR202	18E20879S01	Volume, 20K ohm X4 (CROSSOVER CH-3,4)
VR203	18E23671S01	Volume, 20K ohm X2 (CROSSOVER CH-5)

Connectors

CON303	09E29376S01	CONN BASE, 5267-09A
SD102	09E24856S01	CONN BASE, 5267-03A
SD104	09E24856S01	CONN BASE, 5267-03A
SD106	09E24856S01	CONN BASE, 5267-03A

LED P.W.Board

LED

LD901	48E29328S01	SG3511 (GRN)

Capacitor

C903	08E22510S01	CP., 180pF

Connector

CON902	01E27750S01	Assy., 2P CONNECTOR

Miscellaneous

JK101	09T15353Y01	INPUT RCA Connector (CH-1,2)
JK102	09T15354Y01	INPUT RCA Connector (CH-3,4,5)
ET901	29T15245Y01	POWER SUPPLY Terminal

Symbol No.	Part No.	Description
ET902	09E27882S01	SPEAKER OUTPUT Terminal
F901	65E27881S01	Fuse, Auto 25A (For Battery Line)
F902	65E27881S01	Fuse, Auto 25A (For Battery Line)

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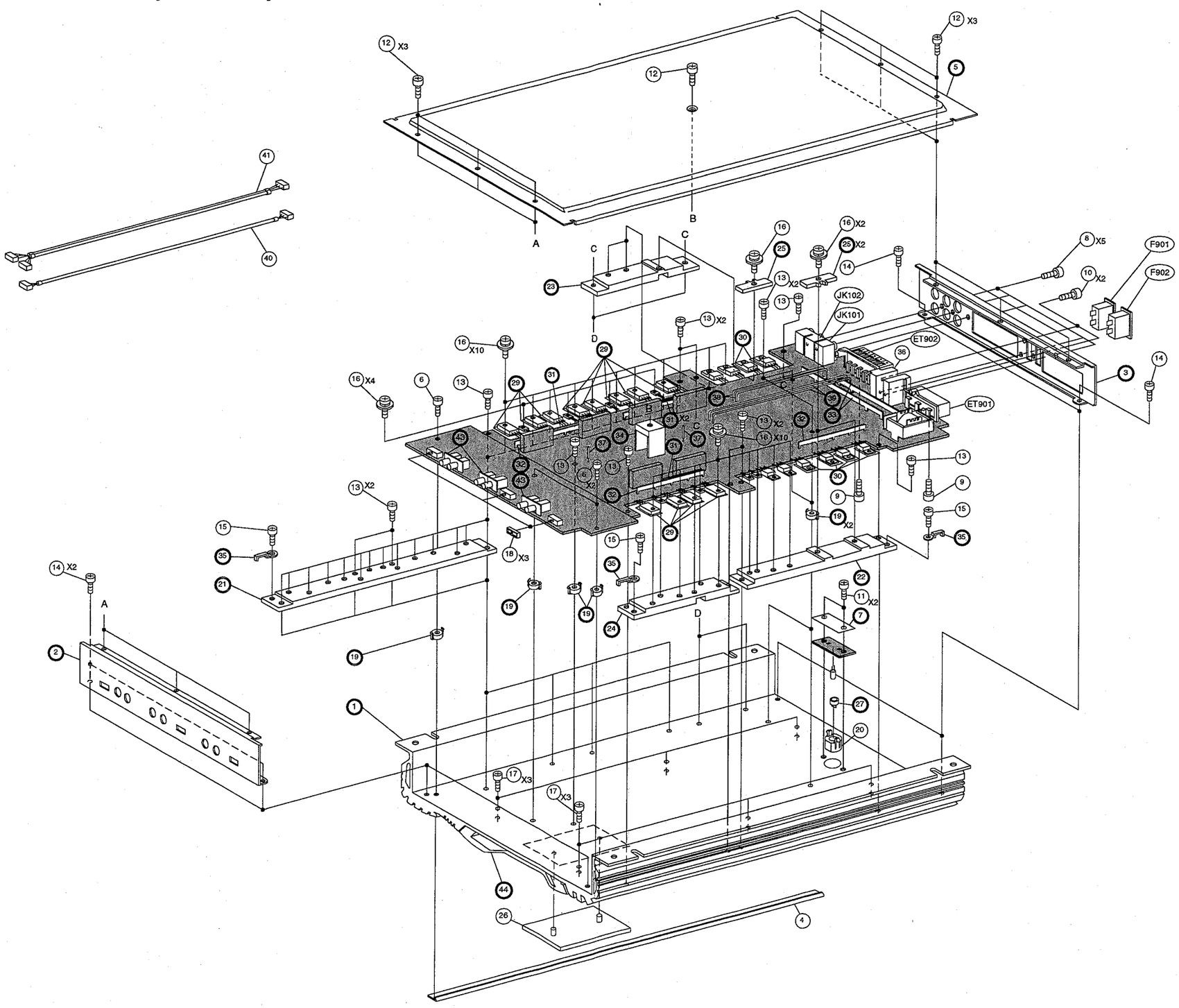
Exploded View (Cabinet)



Cabinet Assembly Parts List

NOTE:Parts without part number are not supplied.

Symbol No.	Index	Part No.	Description
4	5-E	15E29378S01	Cover, Plate
6		03E29347S01	Screw, TPG-TPT (M3X11)
8	2-G	03E09416S09	Screw, TPG-TPT (M3X10)
9		03E09416S10	Screw, TPG-TPT (M3X8)
10	2-G	03E23705S01	Screw, TPG-TPT (M2X6)
11	4-E	03E24424S01	Screw, TPG-TPT (M2.6X5)
12		03E09417S05	Screw, MCH-TPT (M2.6X5)
13		03E09417S06	Screw, TPG-TPT (M3X11)
14		03E09417S08	Screw, TPG-TPT (M3X5)
15		03E20920S01	Screw, TPG-TPT (M3X5)
16		03E20922S01	Screw, TPG-TPT (M3X11)
17	4-D	03E29348S01	Screw, TPG-TPT (M3X8)
18	3-D	15E11445S01	Cover, Switch
20	4-E	61E29351S01	Lens, LED
26	5-D	64E29423S01	Badge, V12 (STRAIGHT)
36	2-F	15E27865S01	Fuse, Holder
40	2-B	01E27885S01	Assy., Shield Wire (SD101)
41	2-B	01E27886S01	Assy., Shield Wire (SD103)

Symbol No.	Index	Part No.	Description